



## Design-Build Startup and Request for Qualifications (“RFQ”) Development

SPEAKER NAME, TITLE  
Month Day, 2018

Roger Millar, Secretary of Transportation

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### Safety

- Sign-in
- Who is CPR Qualified?
- AED
- Who will call 911?
- Evacuation
- Restrooms
- Breaks



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### Course Overview

- Project Start Up
  - Risk Assessment
  - PDMSG
- Planning and Preliminary Engineering
- Classification of RFP Documents
- Elements of the RFQ/ DB Game
- Structure of the RFQ

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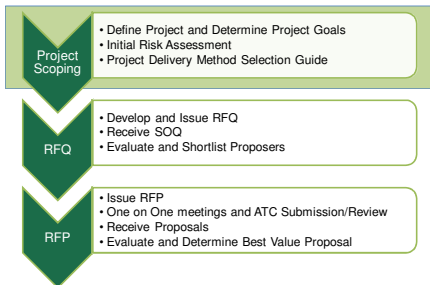
## Project Start Up

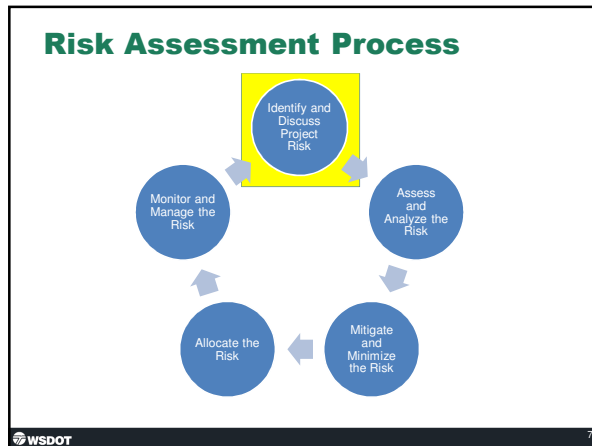


## Procurement Schedule



## Design-Build Procurement Overview






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### Typical Risks in Transportation

- **Site Conditions**
- **Environmental**
- **Right of Way**
- **Third parties**
  - Utilities
  - Railroads
  - Adjacent Jurisdictions

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### Project Risk Management Guide

- **Risk Management Guidance for WSDOT Projects**
  - Project Risk Management Planning
  - Risk Identification
  - Qualitative Risk Analysis
  - Quantitative Risk Analysis
  - Risk Response
  - Risk Monitoring and Control
  - Project Risk Management Plan Template
- <http://www.wsdot.wa.gov/publications/fulltext/cevp/ProjectRiskManagement.pdf>

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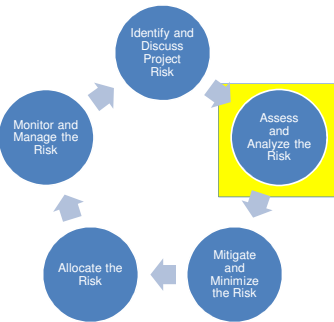
## Project Delivery Method Selection Guidance (“PDMSG”)

- Uniform system for determining appropriate delivery method
- Final PDM (project delivery method) determined during Project Definition Phase at approximately 10 – 30% design
- More information can be found at <http://www.wsdot.wa.gov/Projects/delivery/designbuild/PDMSG.htm>

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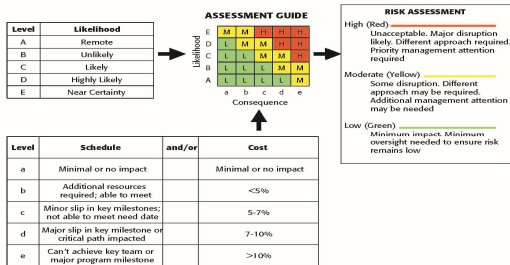
## Risk Assessment Process



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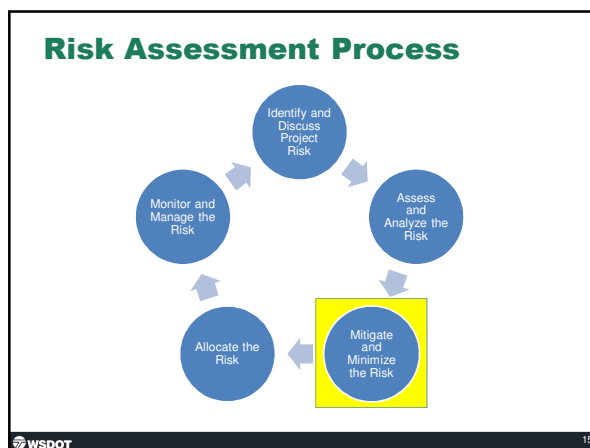
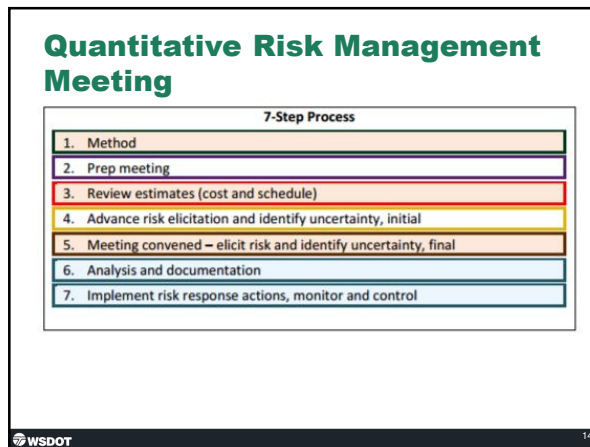
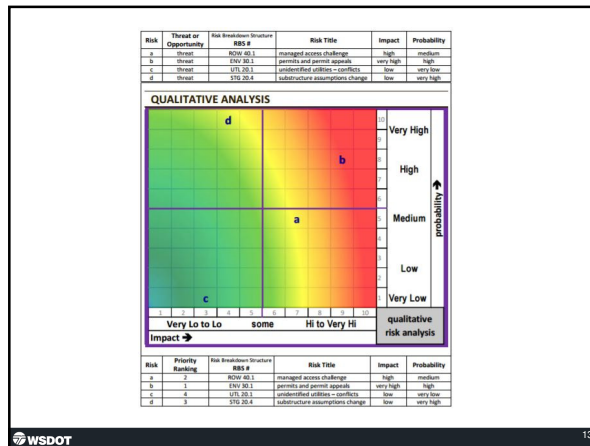
## Assess and Analyze



Adapted from the Federal Highway Administration Guide to Risk Assessment and Allocation for Highway Construction Management, October 2006

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## Mitigate and Minimize Risk

- Craft Appropriate Conceptual Design
- Identify Permit Parameters
- Shortlist Highly Qualified Teams



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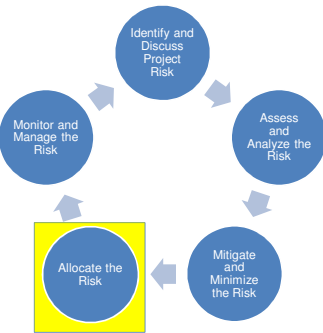
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## Risk Assessment Process



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## Sample Risk Allocation Matrix

- Typical risk allocation
- Risks are carefully balanced and vary with each project
- WSDOT has worked extensively with the industry

**GOAL:** Fairly assign the risk to the party best able to manage the risk

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## Sample Risk Register

### Tool used throughout the project

- Identified and numbered
- Status
- Assessment with Risk Level
- Strategy and Response
- Allocation



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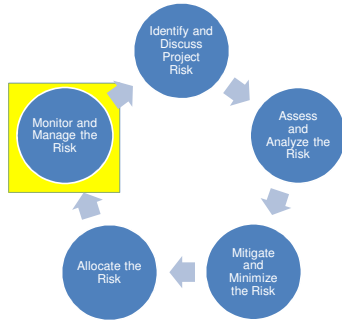
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## Risk Assessment Process



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## Team Selection



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## Selecting the WSDOT Team

### Create an organization that:

- Supports the successful procurement and execution of a design-build project
- Contains personnel educated and trained in design-build.
- Able to successfully communicate with each other and with the design-builder.



*Everyone must pull together!*

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## Planning and Preliminary Engineering




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## It's a balance . . .



**Inadequate, insufficient, or overly defined information may limit innovation, increase risk, reduce competition, or increase overall project costs.**

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## Design Development

- **Initial Development: Pre-procurement**
  - Basic Configuration
  - Conceptual Design
- **Design-Builder's Proposal**
- **Implementation**

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## Preliminary Engineering Development

### Consider:

- Is there a need for a concise definition of the project?
- Is the detail or definition needed to develop the conceptual design?
- Will the detail or information be re-done or verified by the design-build team?
- Does the amount of detail support WSDOT's risk assessment, assignment, and allocation?

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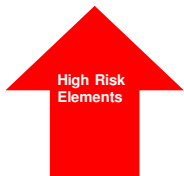
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## Extent of Design Development by WSDOT



**Higher development to identify and manage risk**



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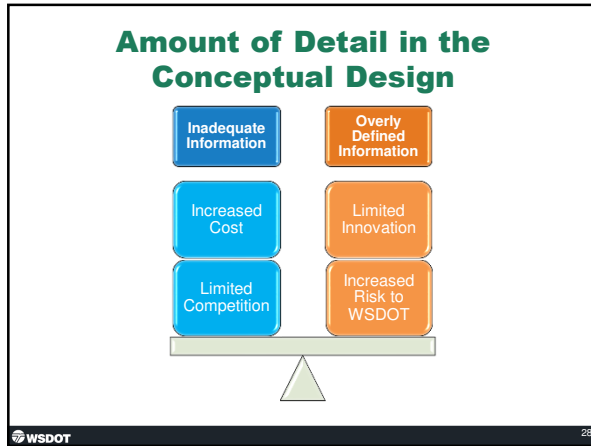
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- ### Classification of RFP Documents
- **Basic Configuration**
    - Elements of the Conceptual Plans that are contractual
    - Proposers can rely on information
    - Proposals must be consistent with the Basic Configuration
  - **Contract Documents**
    - Proposers can rely on information
    - Proposals must be consistent with the Contract (Unless there is an approved ATC)
  - **Reference Documents**
    - Provides information to the Proposers to assist them in preparing Proposals
    - Designs (if any) are only to verify that Basic Configuration/Contract is constructible.
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- ### Basic Configuration
- **Listed in Definition of General Provisions**
    - See 1-01.3
    - **Basic Configuration** – Elements of the Conceptual Plans that are defined as being contractual.
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## Contract Documents vs. Reference

### CONTRACT DOCUMENTS

- Determine the mandatory minimums for project
- Limit "requirements" to project parameters
- Allow Proposers to innovate
- Establish Performance requirements

### REFERENCE

- Shifts risk to Proposer
- Useful information, but may be outdated
- Possible conflict with Contract Requirements

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## Design Surveys

- Control Survey
  - Horizontal and vertical control
  - Stationing and control lines
  - Identify existing roadway
  - Display existing ROW lines
  - Display proposed ROW lines
  - Construction Easements
- Topographic Information
  - Existing alignments
  - As-built data
  - Wetland delineation
  - Hazardous material/landfill

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## Types of Reference Documents

- As-Built Plans
- Historic environmental documents
- Old geotech Reports
- Old boring logs
- Photographs

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## Best Value Selection

- **Owners should use a procurement process that:**
  - Focuses heavily on the qualifications of the design-builder and its key team members and
  - Rewards design-build teams that have a demonstrated history of successfully collaborating on design-build projects.

*DBIA Transportation Best Practices Section 1.2.a.*

- **Owners who emphasize qualifications in their selection of design-builders reap substantial benefits:**

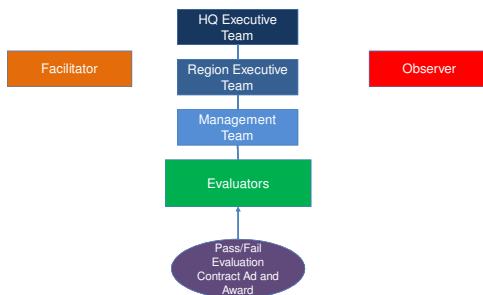
- Increased teamwork
- Proactive behavior
- Collaboration

*DBIA Position Statement on Qualifications Based Selection*

## Two Step Evaluation Process:

- **Step One: *Responsiveness***
  - Pass/Fail Evaluation
  - Are required forms submitted?
  - Is the SOQ in the correct format?
  - Was the SOQ timely?
- **Step Two: *Substantive Evaluation***
  - Follows the format of the RFQ

## Evaluation Committee Organizational Chart



## Evaluation Committee Membership

- **Executive Review Team** HQ
  - M2D2 Secretary or Deputy
  - Division Director
  - State Construction Engineer
- **Executive Team** REGION
  - Regional Administrator
  - Deputy Regional Administrator
- **Management Team** REGION
  - Engineering Manager/Director/ARA
- **Evaluators** REGION, HQ
  - EM or Project Engineer or APE (NOT from the project being evaluated)
  - Technical Engineers
- **Observer** REGION, HQ
  - Depends on Project.

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## Observer Responsibilities

- Review Procurement Documents
- Attend Evaluation Meetings and Observe
- Interpret Procurement Requirements
- *No input on qualitative evaluation scoring*

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## Structure of the RFQ




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## Confidentiality

- All aspects of the procurement are **STRICTLY CONFIDENTIAL**.
  - Disclosure of information regarding the procurement to unauthorized people can threaten the viability of the process.
- All WSDOT personnel must sign confidentiality agreements.



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## Process Overview and Schedule

- Process Overview
  - RFQ
  - RFP
- Procurement Schedule
  - Include key dates for the entire procurement

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## SOQ Format and Logistics

**When developing the RFQ, set strict standards for the following:**

- Templates
- Number of copies of submittals
- Due date, time, and location
- SOQ Organization and Scoring
- Page limits for each sections

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## Industry Outreach

- Informational Meeting
- Industry Events
- Project Website
- Advertisement
- Email



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## Voluntary Submitters Meeting

- Introduction of WSDOT Project Team
- Project Scope
- Project Goals
- Review SOQ Process
- MSVWBE/DBE Networking

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## Points of Contact and Communications

- **Two contacts for WSDOT:**
  - Submittal Information Point of Contact
  - Technical Point of Contact
- **No unauthorized communications**



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## Questions, Clarifications and Addenda

- Questions and Requests for Clarifications are submitted in writing to point of contact.
- Addenda are changes to the RFQ issued by WSDOT.
- Posted on the Contract Ad & Award Site.



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## Organizational Conflicts of Interest

- **Definition: Because of other activities a person or entity**
  - Is unable or potentially unable to render impartial assistance or advice to WSDOT.
  - Is or might be otherwise impaired in its objectivity in performing the Contract Work.
  - Has an unfair competitive advantage.
- **Submitters must disclose**
- **WSDOT may:**
  - Offer to avoid/neutralize conflict
  - Disqualify
  - Declare Proposal non-responsive
- **Federal regulations apply: See 23 CFR §636.116**

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## Evaluating & Shortlisting

- SOQ's submitted to HQ.
- Pass/Fail analysis.
- Evaluation of SOQ's.
- Brief management.
- Announce shortlist 3 teams.



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## Irregularities

- **Material Irregularity**
  - Gives one Submitter an advantage over others
  - Cannot waive
- **Immaterial Irregularity**
  - Does not affect procurement
  - Can waive



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*It's Time to Play*



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## “Major Participant” = Company

- Submitter
- Submitter's Owners
- Pre-Qualified Constructor
- Lead Engineering Firm/Designer
- Primary Subconsultants
- Primary Subcontractors
- QA Inspection Firm

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## “Key Personnel” = Individual

- **All Projects**
  - Project Manager
  - Design Manager
  - Construction Manager
- **Optional**
  - Project Quality Manager
  - Geotech Group Manager
  - Structural Lead Engineer

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## Project Goals



- Defined before delivery method selected
- Reflect project’s needs, objectives and benefits
- Defines the “target” for the design-build team
- The RFQ and the RFP should be drafted to maximize the likelihood of achieving the project’s goals.

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## Example Project Goals SR 167/Puyallup River Bridge

- Manage Geotech Conditions
- Project Collaboration
- Excellent Quality
- Minimize Impacts



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## Statements of Qualification

- Key Personnel Experience
- Major Participants' Experience with Similar Projects
- No Price Consideration

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## Identifying Strengths and Weaknesses

- Identification of:
  - Strengths
  - Weaknesses
- Focused on Project Goals



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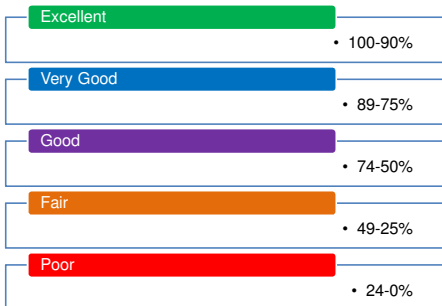
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## Adjectival Evaluation

Rating: Percent of Max Score:



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**The Design-Build Game**

**Project Goals:**

1. Project Collaboration

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**Project Collaboration:** Through effective project management, provide a successful DB Project by managing risk and partnering with WSDOT to identify issues early and efficiently resolve issues at the Project level. This goal will be evaluated based on experience and tactics used collaborating with a public agency owner to resolve project issues at the lowest level, to resolve disagreements that are not resolved at the lowest level, and to resolve disagreements using alternative dispute resolution.

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**The Design-Build Game**

**Points Available: Project Manager**

1. Project Collaboration = 125

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**The Design-Build Game**

**Points Available: Major Participants**

1. Project Collaboration = 200

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**The Design-Build Game**

**APPLAUSE**

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**Debrief**

- Informative meeting with Submitters.
- Provide constructive information
- Goal: Improve the procurement process by assisting Submitters in improving their future submissions.

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## WSDOT Design-Build Training

The WSDOT Design-Build Training Courses have the following modules:

- **In Person Courses:**
  - Design-Build 101 (*Prerequisite to this course*)
  - Design-Build Startup and Request for Qualifications ("RFQ") Development
  - Design-Build Instructions to Proposers (ITP) and Request for Proposals (RFP) Development
  - Design-Build Office Management and Contract Administration
  - Design-Build Closeout Process
  - Environmental in Design-Build
  - Quality in Design-Build
- **Online Courses:**
  - Statement of Qualifications Evaluation
  - Proposal Evaluation
  - Alternative Technical Concept Review Process

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## Resources

- WSDOT Design-Build Web Page  
<http://www.wsdot.wa.gov/Projects/delivery/designbuild/Default.htm>
- Joint Transportation Committee of Washington State Legislature Design-Build Study  
<http://leg.wa.gov/JTC/Pages/Design-Build-Study.aspx>
- WSDOT Design-Build Templates  
<http://sharedot.eng/cn/hqconstr/dpb/DB%20Templates/Forms/AllItems.aspx>
- Design-Build Institute of America Best Practices  
<https://www.dbia.org/resource-center/Pages/Best-Practices.aspx>
- Design-Build Institute of America Transportation Conference  
[www.dbia.org](http://www.dbia.org)

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## Questions




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